



June 2008

DEPARTMENT OF EDUCATION
2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind Act*.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at www.maine.gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron
Commissioner of Education



School Report Grade 8

Test Date: March 2008
Code: 11421371
SAU: Richmond School Department
School: Richmond Middle School

Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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SUMMARY OF SCORES

Test Date: March 2008

Grade: 8

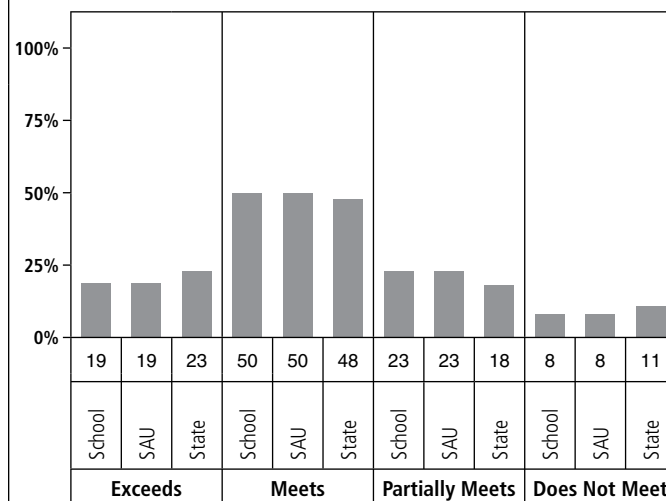
SAU: Richmond School Department

School: Richmond Middle School

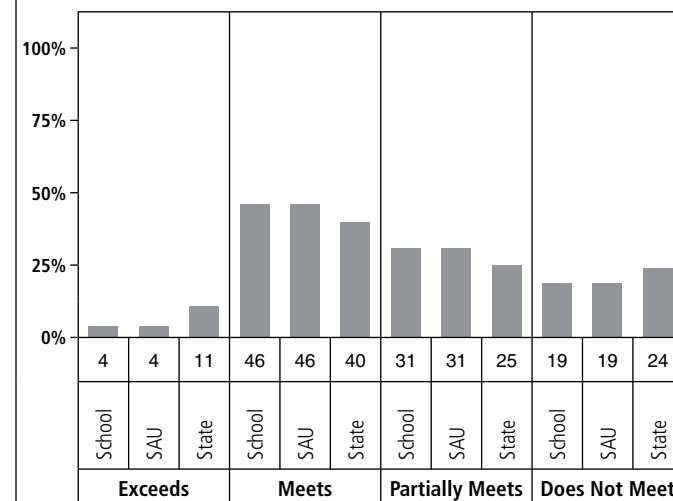
Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
ELA – Reading			
2005–2006	842	842	845
2006–2007	838	838	847
2007–2008	848	848	849
Cum. Avg. *	842	842	847
Mathematics			
2005–2006	837	837	840
2006–2007	838	838	842
2007–2008	842	842	841
Cum. Avg. *	838	838	841
Science & Technology			
2005–2006	847	847	846
2006–2007	844	844	847
2007–2008	848	848	847
Cum. Avg. *	846	846	847

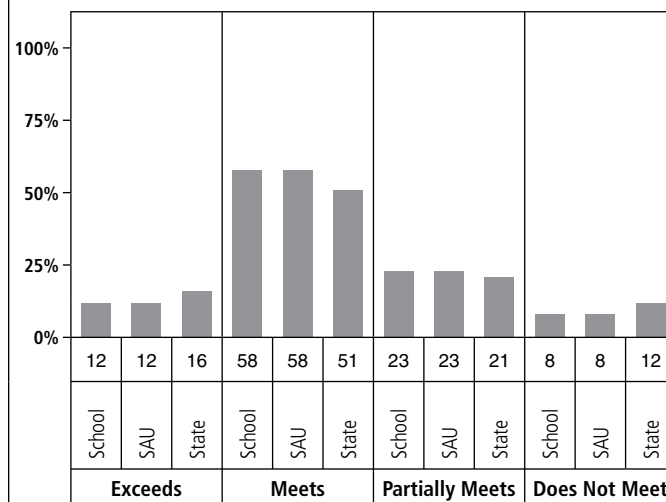
ELA – READING



MATHEMATICS



SCIENCE AND TECHNOLOGY



*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2008
Grade: 8
SAU: Richmond School Department
School: Richmond Middle School

CATEGORY OF PARTICIPATION	Enrollment ¹ during testing window						CONTENT AREA PARTICIPATION ²																							
							ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	26	100	26	100	15274	100	26	100	26	100	15102	99	26	100	26	100	15097	99	26	100	26	100	15080	99						
Ethnicity African American/Black	0	0	0	0	368	2	0	0	0	0	356	97	0	0	0	0	360	98	0	0	0	0	356	97						
American Indian or Native Alaskan	0	0	0	0	120	1	0	0	0	0	117	98	0	0	0	0	117	98	0	0	0	0	117	98						
Asian or Pacific Islander	0	0	0	0	186	1	0	0	0	0	181	97	0	0	0	0	182	98	0	0	0	0	182	98						
Hispanic	0	0	0	0	139	1	0	0	0	0	136	98	0	0	0	0	136	98	0	0	0	0	136	98						
Caucasian/White	26	100	26	100	14461	95	26	100	26	100	14312	99	26	100	26	100	14302	99	26	100	26	100	14289	99						
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Identified disability	4	15	4	15	2508	16	4	100	4	100	2446	98	4	100	4	100	2441	98	4	100	4	100	2431	98						
Current LEP	0	0	0	0	327	2	0	0	0	0	316	97	0	0	0	0	322	99	0	0	0	0	322	99						
Economically disadvantaged	11	42	11	42	5420	35	11	100	11	100	5329	99	11	100	11	100	5324	99	11	100	11	100	5313	98						
Migrant	0	0	0	0	7	0	0	0	0	0	7	100	0	0	0	0	7	100	0	0	0	0	7	100						

MODE OF PARTICIPATION ³	ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Participation without accommodations	23	88	23	88	12703	83	22	85	22	85	12694	83	23	88	23	88	12710	83						
Identified disability (PET/IEP)	1	4	1	4	437	3	1	5	1	5	421	3	1	4	1	4	445	4						
LEP	0	0	0	0	172	1	0	0	0	0	172	1	0	0	0	0	173	1						
504 plan	0	0	0	0	229	2	0	0	0	0	231	2	0	0	0	0	230	2						
Participation with accommodations	3	12	3	12	2221	15	4	15	4	15	2227	15	3	12	3	12	2197	14						
Identified disability (PET/IEP)	3	100	3	100	1832	82	3	75	3	75	1844	83	3	100	3	100	1813	83						
LEP	0	0	0	0	136	6	0	0	0	0	143	6	0	0	0	0	142	6						
504 plan	0	0	0	0	68	3	0	0	0	0	66	3	0	0	0	0	66	3						
Other	0	0	0	0	213	10	1	25	1	25	202	9	0	0	0	0	204	9						
Participation through alternate assessment (PAAP)	0	0	0	0	177	1	0	0	0	0	176	1	0	0	0	0	173	1						
Identified disability (PET/IEP)	0	0	0	0	177	100	0	0	0	0	176	100	0	0	0	0	173	100						
LEP	0	0	0	0	7	4	0	0	0	0	7	4	0	0	0	0	7	4						
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Approved non-participation in reading – 1st year LEP	0	0	0	0	1	0																		
Approved non-participation – special consideration	0	0	0	0	32	0	0	0	0	0	34	0	0	0	0	0	34	0						
Non-participation – other	0	0	0	0	140	1	0	0	0	0	143	1	0	0	0	0	160	1						

¹ Percents are the percentage of students enrolled in each participation category.

² Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

³ Percents are the percentage of students in each content area by mode.

ELA–READING RESULTS

Test Date:	March 2008
Grade:	8
SAU:	Richmond School Department
School:	Richmond Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 861–880)	2005-2006	5	9	5	9	2695	17
	2006-2007	1	3	1	3	2407	16
	2007-2008	5	19	5	19	3428	23
	Cum. Total*	11	9	11	9	8530	18
Meets the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 841–860)	2005-2006	23	43	23	43	6830	42
	2006-2007	11	29	11	29	7494	49
	2007-2008	13	50	13	50	7179	48
	Cum. Total*	47	40	47	40	21503	46
Partially Meets the Standards – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 829–840)	2005-2006	15	28	15	28	3741	23
	2006-2007	16	42	16	42	3628	24
	2007-2008	6	23	6	23	2706	18
	Cum. Total*	37	32	37	32	10075	22
Does Not Meet the Standards – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 800–828)	2005-2006	10	19	10	19	3003	18
	2006-2007	10	26	10	26	1810	12
	2007-2008	2	8	2	8	1611	11
	Cum. Total*	22	19	22	19	6424	14

Learning Results Content Standard Cluster	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Total Reading Cluster	56	100	36.2	64.6	36.2	64.6	36.9	65.9
Literary Text	28	50	17.9	63.9	17.9	63.9	18.3	65.4
Informational Text	28	50	18.3	65.4	18.3	65.4	18.6	66.4

The Maine *Learning Results* reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students’ reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine’s 1997 *Learning Results*, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

ELA-READING RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 8
 SAU: Richmond School Department
 School: Richmond Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	26	5	19	13	50	6	23	2	8	848	26	19	50	23	8	848	14924	23	48	18	11	849
Ethnicity																						
African American/Black	0										0						348	11	38	22	29	840
American Indian or Native Alaskan	0										0						117	9	43	29	19	842
Asian or Pacific Islander	0										0						179	32	39	18	11	852
Hispanic	0										0						131	18	38	27	17	846
Caucasian/White	26	5	19	13	50	6	23	2	8	848	26	19	50	23	8	848	14149	23	49	18	10	850
Not Reported	0										0						0					
Identified disability																						
Yes	4										4						2269	3	24	32	42	833
No	22	5	23	12	55	4	18	1	5	850	22	23	55	18	5	850	12655	27	52	16	5	852
Current LEP																						
Yes	0										0						308	8	30	27	34	837
No	26	5	19	13	50	6	23	2	8	848	26	19	50	23	8	848	14616	23	48	18	10	850
Economically disadvantaged																						
Yes	11	2	18	4	36	4	36	1	9	845	11	18	36	36	9	845	5222	12	44	25	19	843
No	15	3	20	9	60	2	13	1	7	850	15	20	60	13	7	850	9702	29	50	14	7	853
Migrant																						
Yes	0										0						7	0	86	0	14	850
No	26	5	19	13	50	6	23	2	8	848	26	19	50	23	8	848	14917	23	48	18	11	849
Gender																						
Female	13	3	23	9	69	0	0	1	8	852	13	23	69	0	8	852	7198	30	48	15	7	853
Male	13	2	15	4	31	6	46	1	8	843	13	15	31	46	8	843	7726	17	49	21	14	847
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	3										3						807	9	41	32	18	842
No	23	5	22	12	52	4	17	2	9	849	23	22	52	17	9	849	14117	24	49	17	10	850
Gifted/talented program																						
Yes	0										0						592	71	28	1	0	867
No	26	5	19	13	50	6	23	2	8	848	26	19	50	23	8	848	14332	21	49	19	11	849

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

ELA–READING RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
 Grade: 8
 SAU: Richmond School Department
 School: Richmond Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
		%	N	%	N	%	N	%	N			%	%	%	%			%	%	%	%	
How much homework do you do on school nights? A. none B. less than one hour C. one to two hours D. more than two hours	24 52 16 8	1 2 1 0	17 15 25 0	3 6 3 1	50 46 75 50	1 4 0 1	17 31 0 50	1 1 0 0	17 8 0 0	846 847 854 839	24 52 16 8	17 15 25 0	50 46 75 50	17 31 0 50	17 8 0 0	846 847 854 839	9 46 41 5	10 20 28 28	39 50 49 44	24 20 15 15	26 11 7 12	841 849 852 850
How well do the questions that you have just been given on this MEA test match what you have learned in school about reading? A. The questions on the test match what I have learned in reading class. B. They match some of what I have learned. C. They match just a little of what I have learned. D. There is no match.	32 36 32 0	1 1 2 0	13 11 25 0	5 6 2 0	63 67 25 0	2 2 2 0	25 22 25 50	0 0 2 1	0 0 25 50	849 849 844 828	32 36 32 0	13 11 25 0	63 67 25 0	25 22 25 50	0 0 25 50	849 849 844 828	33 53 11 3	31 21 14 6	48 51 41 34	14 19 25 26	7 9 20 35	853 849 844 836
Which of the following best describes how you rate yourself as a student in reading? A. very good B. good C. fair D. poor	44 40 8 8	2 2 0 0	18 20 0 0	7 5 1 0	64 50 50 0	2 3 0 1	18 30 0 50	0 0 1 1	0 0 50 50	852 848 835 828	44 40 8 8	18 20 0 0	64 50 50 0	18 30 0 50	0 0 50 50	852 848 835 828	31 49 18 2	42 19 5 4	44 54 42 29	8 19 31 32	6 9 22 34	857 849 840 835
How difficult was the reading part of this test? A. harder than my regular schoolwork B. about the same as my regular schoolwork C. easier than my regular schoolwork	12 52 36	1 1 2	33 8 22	1 6 6	33 46 67	1 4 1	33 31 11	0 2 0	0 15 0	851 843 852	12 52 36	33 8 22	33 46 67	33 31 11	0 15 0	851 843 852	15 65 19	16 23 30	44 49 49	22 18 14	18 9 8	845 850 852
How difficult were the reading passages on this test? A. Most of the passages were more difficult than what I normally read. B. Most of the passages were about the same as what I normally read. C. Most of the passages were easier than what I normally read.	16 32 52	0 2 2	0 25 15	1 4 8	25 50 62	2 1 3	50 13 23	1 1 0	25 13 0	836 847 851	16 32 52	0 25 15	25 50 62	25 13 23	25 13 0	836 847 851	9 53 38	8 17 36	33 51 48	28 21 11	31 11 5	838 848 855
How hard did you try on the reading part of this test? A. I tried harder on this test than I do on my regular schoolwork. B. I tried about the same as I do on my regular schoolwork. C. I did not try as hard on this test as I do on my regular schoolwork.	58 42 0	2 2 0	14 20 0	8 4 0	57 40 0	4 2 0	29 20 0	0 2 0	0 20 0	849 845 842	58 42 0	14 20 0	57 40 0	29 20 0	0 20 0	849 845 842	43 51 6	23 25 9	48 49 43	19 17 24	10 9 23	849 851 842
How much time do you spend reading at home each day? A. more than one hour B. 20 minutes to an hour C. less than 20 minutes D. I rarely read at home.	24 20 20 36	1 1 1 1	17 20 20 11	4 2 2 5	67 40 40 56	1 2 2 1	17 40 40 11	0 0 0 2	0 0 0 22	849 849 850 844	24 20 20 36	17 20 20 11	67 40 40 56	17 40 40 11	0 0 0 22	849 849 850 844	18 41 13 28	31 28 20 12	47 49 49 47	13 15 18 26	9 7 12 16	852 852 848 844
How do you feel about the following statement? <i>“My knowledge of reading will be useful to me as an adult.”</i> A. strongly agree B. agree C. disagree D. strongly disagree	52 40 4 4	3 1 0 0	23 10 0 0	7 5 0 1	54 50 0 100	3 2 1 0	23 20 100 0	0 2 0 0	0 20 0 0	852 842 832 852	52 40 4 4	23 10 0 0	54 50 0 100	23 20 100 0	0 20 0 0	852 842 832 852	43 48 6 2	31 18 11 6	48 50 43 36	14 20 24 32	7 12 21 26	853 848 843 839
Optional school/SAU question A. B. C. D.	50 25 25 0	0 0 1 0	0 0 100 0	1 1 0 0	50 100 0 0	1 0 0 0	50 0 0 0	0 0 0 0	0 0 0 0	842 844 868 842	50 25 25 0	0 0 100 0	50 100 0 0	50 0 0 0	0 0 0 0	842 844 868 842						

MATHEMATICS RESULTS

Test Date: March 2008
Grade: 8
SAU: Richmond School Department
School: Richmond Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 861–880)	2005-2006	4	8	4	8	1714	11
	2006-2007	2	5	2	5	1952	13
	2007-2008	1	4	1	4	1657	11
	Cum. Total*	7	6	7	6	5323	11
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (scaled score 841–860)	2005-2006	15	28	15	28	5533	34
	2006-2007	10	26	10	26	5870	38
	2007-2008	12	46	12	46	5956	40
	Cum. Total*	37	32	37	32	17359	37
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 829–840)	2005-2006	16	30	16	30	4764	29
	2006-2007	18	47	18	47	3982	26
	2007-2008	8	31	8	31	3729	25
	Cum. Total*	42	36	42	36	12475	27
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 800–828)	2005-2006	18	34	18	34	4251	26
	2006-2007	8	21	8	21	3534	23
	2007-2008	5	19	5	19	3579	24
	Cum. Total*	31	26	31	26	11364	24

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	16	29	8.2	51.3	8.2	51.3	8.4	52.5
Cluster 2: Shape and Size	14	25	6.0	42.9	6.0	42.9	5.9	42.1
Cluster 3: Mathematical Decision Making	8	14	4.5	56.3	4.5	56.3	4.6	57.5
Cluster 4: Patterns	18	32	9.3	51.7	9.3	51.7	8.9	49.4

- Cluster 1: Numbers and Operations**
A. Numbers and Number Sense
B. Computation
I. Discrete Mathematics (grades 3 and 4 only)
- Cluster 2: Shape and Size**
E. Geometry
F. Measurement
- Cluster 3: Mathematical Decision Making**
C. Data Analysis and Statistics
D. Probability
- Cluster 4: Patterns**
G. Patterns, Relations, and Functions
H. Algebra Concepts
K. Mathematical Communication

Each content standard in the clusters above is defined in Maine’s 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at <http://www.maine.gov/education/lslalt/gles.htm>.

MATHEMATICS RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 8
 SAU: Richmond School Department
 School: Richmond Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	26	1	4	12	46	8	31	5	19	842	26	4	46	31	19	842	14921	11	40	25	24	841
Ethnicity																						
African American/Black	0										0						352	2	23	23	52	828
American Indian or Native Alaskan	0										0						117	5	22	33	39	832
Asian or Pacific Islander	0										0						181	24	42	20	14	848
Hispanic	0										0						131	7	34	26	33	836
Caucasian/White	26	1	4	12	46	8	31	5	19	842	26	4	46	31	19	842	14140	11	41	25	23	841
Not Reported	0										0						0					
Identified disability																						
Yes	4										4						2265	1	14	22	62	824
No	22	1	5	12	55	5	23	4	18	844	22	5	55	23	18	844	12656	13	45	26	17	844
Current LEP																						
Yes	0										0						315	5	24	20	51	828
No	26	1	4	12	46	8	31	5	19	842	26	4	46	31	19	842	14606	11	40	25	23	841
Economically disadvantaged																						
Yes	11	1	9	4	36	3	27	3	27	841	11	9	36	27	27	841	5217	5	30	29	37	834
No	15	0	0	8	53	5	33	2	13	842	15	0	53	33	13	842	9704	15	45	23	17	845
Migrant																						
Yes	0										0						7	0	43	43	14	838
No	26	1	4	12	46	8	31	5	19	842	26	4	46	31	19	842	14914	11	40	25	24	841
Gender																						
Female	13	0	0	7	54	6	46	0	0	846	13	0	54	46	0	846	7199	11	40	26	23	841
Male	13	1	8	5	38	2	15	5	38	838	13	8	38	15	38	838	7722	11	40	24	25	841
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	3										3						806	3	20	30	47	831
No	23	1	4	12	52	8	35	2	9	844	23	4	52	35	9	844	14115	12	41	25	23	842
Gifted/talented program																						
Yes	0										0						592	58	39	2	1	864
No	26	1	4	12	46	8	31	5	19	842	26	4	46	31	19	842	14329	9	40	26	25	840

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

MATHEMATICS RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
 Grade: 8
 SAU: Richmond School Department
 School: Richmond Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	24	0	0	3	50	3	50	0	0	842	24	0	50	50	0	842	9	5	30	23	41	833
B. less than one hour	52	0	0	6	46	3	23	4	31	841	52	0	46	23	31	841	46	10	40	26	25	840
C. one to two hours	16	0	0	3	75	1	25	0	0	846	16	0	75	25	0	846	41	14	42	25	19	843
D. more than two hours	8	0	0	0	0	1	50	1	50	830	8	0	0	50	50	830	5	14	38	23	24	842
How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?																						
A. The questions on the test match what I have learned in mathematics class.	12	0	0	3	100	0	0	0	0	855	12	0	100	0	0	855	30	17	43	22	18	845
B. They match some of what I have learned.	24	0	0	3	50	1	17	2	33	840	24	0	50	17	33	840	50	10	42	26	22	841
C. They match just a little of what I have learned.	40	0	0	4	40	5	50	1	10	841	40	0	40	50	10	841	17	6	32	29	33	836
D. There is no match.	24	0	0	2	33	2	33	2	33	834	24	0	33	33	33	834	4	3	18	25	54	828
Which of the following best describes how you rate yourself as a student in mathematics?																						
A. very good	44	0	0	9	82	1	9	1	9	849	44	0	82	9	9	849	26	29	46	14	11	851
B. good	24	0	0	1	17	4	67	1	17	835	24	0	17	67	17	835	45	7	46	27	20	841
C. fair	24	0	0	0	0	3	50	3	50	829	24	0	0	50	50	829	23	1	26	34	38	833
D. poor	8	0	0	2	100	0	0	0	0	848	8	0	100	0	0	848	5	1	14	29	57	827
How difficult was the mathematics part of this test?																						
A. harder than my regular schoolwork	46	0	0	3	27	6	55	2	18	838	46	0	27	55	18	838	34	4	35	28	32	836
B. about the same as my regular schoolwork	38	0	0	5	56	2	22	2	22	843	38	0	56	22	22	843	52	10	43	26	21	842
C. easier than my regular schoolwork	17	0	0	3	75	0	0	1	25	845	17	0	75	0	25	845	13	33	40	14	13	852
How hard did you try on the mathematics part of this test?																						
A. I tried harder on this test than I do on my regular schoolwork.	60	0	0	10	67	2	13	3	20	843	60	0	67	13	20	843	44	10	40	26	25	840
B. I tried about the same as I do on my regular schoolwork.	36	0	0	1	11	6	67	2	22	835	36	0	11	67	22	835	50	13	42	24	21	843
C. I did not try as hard on this test as I do on my regular schoolwork.	4	0	0	1	100	0	0	0	0	860	4	0	100	0	0	860	6	9	27	27	38	835
How often do you use laptops in mathematics class?																						
A. almost every day	20	0	0	2	40	2	40	1	20	841	20	0	40	40	20	841	9	6	38	27	29	837
B. two or three days a week	12	0	0	1	33	1	33	1	33	836	12	0	33	33	33	836	16	8	38	27	27	839
C. two or three times each month	24	0	0	2	33	3	50	1	17	837	24	0	33	50	17	837	28	12	41	27	21	843
D. never or almost never	44	0	0	7	64	2	18	2	18	844	44	0	64	18	18	844	48	13	40	23	24	842
How often do you use calculators in mathematics class?																						
A. almost every day	48	0	0	3	25	5	42	4	33	834	48	0	25	42	33	834	38	14	42	23	21	843
B. two or three times a week	24	0	0	2	33	3	50	1	17	839	24	0	33	50	17	839	33	10	41	26	23	841
C. two or three times each month	20	0	0	5	100	0	0	0	0	858	20	0	100	0	0	858	18	10	36	27	27	840
D. never or almost never	8	0	0	2	100	0	0	0	0	848	8	0	100	0	0	848	11	7	34	26	33	836
How do you feel about the following statement? <i>"My knowledge of mathematics will be useful to me as an adult."</i>																						
A. strongly agree	44	0	0	6	55	5	45	0	0	845	44	0	55	45	0	845	54	14	44	23	18	844
B. agree	36	0	0	5	56	2	22	2	22	842	36	0	56	22	22	842	38	8	36	27	28	838
C. disagree	12	0	0	0	0	1	33	2	67	828	12	0	0	33	67	828	6	6	31	28	36	835
D. strongly disagree	8	0	0	1	50	0	0	1	50	833	8	0	50	0	50	833	2	3	23	25	49	831
Optional school/SAU question																						
A.	50	0	0	0	0	0	0	2	100	822	50	0	0	0	100	822						
B.	25	0	0	0	0	1	100	0	0	840	25	0	0	100	0	840						
C.	25	0	0	1	100	0	0	0	0	860	25	0	100	0	0	860						
D.	0										0											

SCIENCE AND TECHNOLOGY RESULTS

Test Date: March 2008
Grade: 8
SAU: Richmond School Department
School: Richmond Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 861–880)	2005-2006	6	12	6	12	1879	12
	2006-2007	3	8	3	8	2192	14
	2007-2008	3	12	3	12	2371	16
	Cum. Total*	12	10	12	10	6442	14
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 841–860)	2005-2006	28	54	28	54	8604	53
	2006-2007	19	50	19	50	7916	52
	2007-2008	15	58	15	58	7630	51
	Cum. Total*	62	53	62	53	24150	52
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 831–840)	2005-2006	13	25	13	25	3618	22
	2006-2007	12	32	12	32	3340	22
	2007-2008	6	23	6	23	3175	21
	Cum. Total*	31	27	31	27	10133	22
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 800–830)	2005-2006	5	10	5	10	2174	13
	2006-2007	4	11	4	11	1865	12
	2007-2008	2	8	2	8	1731	12
	Cum. Total*	11	9	11	9	5770	12

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Life Sciences	14	25	8.6	61.4	8.6	61.4	8.1	57.9
Cluster 2: Physical Sciences	14	25	7.2	51.4	7.2	51.4	7.3	52.1
Cluster 3: Earth and Space Sciences	14	25	7.7	55.0	7.7	55.0	7.7	55.0
Cluster 4: Nature and Implications of Science	14	25	8.7	62.1	8.7	62.1	8.5	60.7

Cluster 1: Life Sciences

- A. Classifying Life Forms
- B. Ecology
- C. Cells

Cluster 2: Physical Sciences

- E. Structure of Matter
- H. Energy
- I. Motion

Cluster 3: Earth and Space Sciences

- D. Continuity and Change
- F. The Earth
- G. The Universe

Cluster 4: Nature and Implications of Science

- J. Inquiry and Problem Solving
- K. Scientific Reasoning
- L. Communication
- M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine’s 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at <http://www.maine.gov/education/lslt/gles.htm>.

SCIENCE AND TECHNOLOGY RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 8
 SAU: Richmond School Department
 School: Richmond Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	26	3	12	15	58	6	23	2	8	848	26	12	58	23	8	848	14907	16	51	21	12	847
Ethnicity																						
African American/Black	0										0						349	4	35	26	34	837
American Indian or Native Alaskan	0										0						117	8	40	28	24	840
Asian or Pacific Islander	0										0						181	20	50	15	15	849
Hispanic	0										0						131	5	50	22	23	842
Caucasian/White	26	3	12	15	58	6	23	2	8	848	26	12	58	23	8	848	14129	16	52	21	11	848
Not Reported	0										0						0					
Identified disability																						
Yes	4										4						2258	3	29	31	37	836
No	22	3	14	12	55	5	23	2	9	848	22	14	55	23	9	848	12649	18	55	20	7	850
Current LEP																						
Yes	0										0						315	4	29	25	42	834
No	26	3	12	15	58	6	23	2	8	848	26	12	58	23	8	848	14592	16	52	21	11	848
Economically disadvantaged																						
Yes	11	2	18	7	64	1	9	1	9	851	11	18	64	9	9	851	5206	8	45	28	20	842
No	15	1	7	8	53	5	33	1	7	846	15	7	53	33	7	846	9701	20	55	18	7	850
Migrant																						
Yes	0										0						7	29	57	14	0	852
No	26	3	12	15	58	6	23	2	8	848	26	12	58	23	8	848	14900	16	51	21	12	847
Gender																						
Female	13	1	8	9	69	3	23	0	0	851	13	8	69	23	0	851	7196	14	52	23	12	847
Male	13	2	15	6	46	3	23	2	15	845	13	15	46	23	15	845	7711	18	51	20	12	848
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	3										3						804	6	38	34	22	841
No	23	3	13	13	57	6	26	1	4	849	23	13	57	26	4	849	14103	16	52	21	11	848
Gifted/talented program																						
Yes	0										0						592	63	35	1	0	865
No	26	3	12	15	58	6	23	2	8	848	26	12	58	23	8	848	14315	14	52	22	12	847

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

SCIENCE AND TECHNOLOGY RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
 Grade: 8
 SAU: Richmond School Department
 School: Richmond Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	24	0	0	4	67	2	33	0	0	845	24	0	67	33	0	845	9	10	40	26	23	842
B. less than one hour	52	1	8	6	46	4	31	2	15	844	52	8	46	31	15	844	46	14	52	22	12	847
C. one to two hours	16	1	25	3	75	0	0	0	0	858	16	25	75	0	0	858	41	19	53	19	9	849
D. more than two hours	8	0	0	2	100	0	0	0	0	852	8	0	100	0	0	852	5	19	47	21	14	848
How well do the questions that you have just been given on this MEA test match what you have learned in school about science?																						
A. The questions on the test match what I have learned in science class.	56	1	7	9	64	2	14	2	14	847	56	7	64	14	14	847	29	19	54	19	9	849
B. They match some of what I have learned.	36	0	0	5	56	4	44	0	0	845	36	0	56	44	0	845	49	16	51	22	11	848
C. They match just a little of what I have learned.	4	1	100	0	0	0	0	0	0	868	4	100	0	0	0	868	18	13	51	23	13	846
D. There is no match.	4	0	0	1	100	0	0	0	0	850	4	0	100	0	0	850	5	9	39	29	23	842
Which of the following best describes how you rate yourself as a student in science?																						
A. very good	33	1	13	5	63	2	25	0	0	850	33	13	63	25	0	850	23	28	51	13	8	853
B. good	29	1	14	3	43	2	29	1	14	847	29	14	43	29	14	847	54	15	55	21	9	848
C. fair	29	0	0	5	71	1	14	1	14	845	29	0	71	14	14	845	20	5	45	32	18	842
D. poor	8	0	0	1	50	1	50	0	0	846	8	0	50	50	0	846	3	2	35	34	29	838
How difficult was the science part of this test?																						
A. harder than my regular schoolwork	12	0	0	2	67	1	33	0	0	847	12	0	67	33	0	847	27	15	49	22	14	846
B. about the same as my regular schoolwork	84	2	10	12	57	5	24	2	10	847	84	10	57	24	10	847	59	15	53	22	10	848
C. easier than my regular schoolwork	4	0	0	1	100	0	0	0	0	850	4	0	100	0	0	850	13	21	51	18	10	850
How hard did you try on the science part of this test?																						
A. I tried harder on this test than I do on my regular schoolwork.	46	0	0	6	55	4	36	1	9	844	46	0	55	36	9	844	40	15	51	22	12	847
B. I tried about the same as I do on my regular schoolwork.	54	2	15	8	62	2	15	1	8	850	54	15	62	15	8	850	55	17	53	21	10	848
C. I did not try as hard on this test as I do on my regular schoolwork.	0										0						5	12	41	25	22	843
Which courses do you plan to take before you graduate from high school?																						
A. earth and space science and/or biology	41	1	11	6	67	2	22	0	0	850	41	11	67	22	0	850	25	11	53	23	13	846
B. the course(s) described in A, plus chemistry	41	0	0	5	56	3	33	1	11	842	41	0	56	33	11	842	24	18	53	20	10	849
C. the course(s) described in B, plus physics	14	1	33	2	67	0	0	0	0	861	14	33	67	0	0	861	22	30	47	14	8	853
D. a life science and physical science class	5	0	0	0	0	1	100	0	0	834	5	0	0	100	0	834	29	8	52	27	14	844
How do you feel about the following statement? <i>"My knowledge of science and technology will be useful to me as an adult."</i>																						
A. strongly agree	35	0	0	6	75	2	25	0	0	848	35	0	75	25	0	848	27	23	51	17	9	851
B. agree	52	1	8	8	67	2	17	1	8	848	52	8	67	17	8	848	54	15	53	21	11	847
C. disagree	13	1	33	0	0	2	67	0	0	847	13	33	0	67	0	847	15	10	50	26	14	845
D. strongly disagree	0										0						4	7	39	30	24	841
How well does the following statement reflect your future goals? <i>"I am interested in a career related to science, technology, engineering, or mathematics."</i>																						
A. strongly agree	25	0	0	4	67	2	33	0	0	847	25	0	67	33	0	847	25	24	52	15	8	851
B. agree	50	1	8	7	58	3	25	1	8	847	50	8	58	25	8	847	37	15	50	22	12	847
C. disagree	21	0	0	4	80	1	20	0	0	849	21	0	80	20	0	849	26	12	53	23	12	846
D. strongly disagree	4	1	100	0	0	0	0	0	0	868	4	100	0	0	0	868	12	8	48	28	15	844
Optional school/SAU question																						
A.	50	0	0	1	50	1	50	0	0	840	50	0	50	50	0	840						
B.	25	0	0	0	0	1	100	0	0	834	25	0	0	100	0	834						
C.	25	1	100	0	0	0	0	0	0	868	25	100	0	0	0	868						
D.	0										0											

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards
 N = Number